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ctc Leu	caa Gln	ctt Leu	gtg Val	ggc Gly -15	tac Tyr	atc Ile	cta Leu	ggc	ctt Leu -10	ctg Leu	Gly	ctt Leu	ttg Leu	ggc Gly -5	aca Thr	222
ctg Leu	gtt Val	gcc Ala	atg Met 1	ctg Leu	ctc Leu	ccc Pro	agc Ser 5	tgg Trp	aaa Lys	aca Thr	agt Ser	tct Ser 10	tat Tyr	gtc Val	ggt Gly	270
gcc Ala	agc Ser 15	att Ile	gtg Val	aca Thr	gca Ala	gtt Val 20	ggc Gly	ttc Phe	tcc Ser	aag Lys	ggc Gly 25	ctc Leu	tgg Trp	atg Met	gaa Glu	318
tgt La Cys	gcc Ala	aca Thr	cac His	agc Ser	aca Thr 35	ggc	atc Ile	acc Thr	cag Gln	tgt Cys 40	gac	atc Ile	tat Tyr	agc Ser	acc Thr 45	366
Leu	Leu	Gly	Leu	Pro	Ala	Asp	Ile	Xaa	Ala	Ala	Gln	Ala	Met	Met	Val	414
aca Thr	tcc Ser	agt Ser	gca Ala 65	atc Ile	tcc Ser	tcc Ser	ctg Leu	gcc Ala 70	tgc Cys	att Ile	atc Ile	tct Ser	gtg Val 75	gtg Val	ggc Gly	462
atg a≟ Met	Xaa	Cys 80	Thr	Val	Phe	Суѕ	Gln 85	Glu	Ser	Arg	Ala	Lys 90	Asp	Arg	Val	510
: á =}	va⊥ 95	Ala	GLY	GIA	Val	Phe	Phe	Ile	Leu	Gly	Gly 105	Leu	Leu	Gly	Phe	558
llatt Ile 110	cct Pro	gtt Val	gcc Ala	tgg Trp	aat Asn 115	ctt Leu	cat His	ggg Gly	atc Ile	cta Leu 120	cgg Arg	gac Asp	ttc Phe	tac Tyr	tca Ser 125	606
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ccc at Pro Me	et Leu -10	ttg Leu	ctg Leu	att Ile	gtt Val	gga Gly -5	ggt Gly	tct Ser	ttt Phe	ggt Gly	ctt Leu 1	cgt Arg	gag Glu	ttt Phe	21	. 3
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a a ga	caagt gcacc gagct gttca g act	atg faaa f gct g ctc a ctc a	gagat gagat atg t Met E ggc Gly	tat general control co	ga aa gg ag Ala B -30 gga Gly	gtete ecc e ero A gte Val	geget geg (Ala V ecc Pro	g agg t agg gtg a Val N atg Met	gccc atg Met 1 ttg Leu -10	ggac gctt cgt g Arg 1 -25 ttg Leu	gtad ggag gct t Ala E ctg Leu	tcgt gttct tt c he A att Ile	ga (gc (Arg) gtt Val	gccga aag a Lys 1 gga Gly -5	gagaga atgga aac Asn -20 ggt Gly	c 120 a 180)))
a ga a gga a a gga a a Ly to	caagt gcacc gagct gttca g act	atg faaa fgct gctc a letc a letc a letc ggt	gagat gagat gatg t Met E ggc Gly	caagg ttgc tt g Phe F tat Tyr -15 cgt	ga aagga agga agga agga agga agga agga	gtete gtete ecc e Pro P gte Val	geget geg (Ala V ecc Pro	g agg gtg a Val N atg Met	gcccq atg (Met 1 ttg Leu -10 atc	ggac gctt cgt g Arg 2 -25 ttg Leu cga	gtad ggag gct t Ala E ctg Leu tat	tcgt gttct tt c he A att Ile gat	ga (gc a Arg] gtt Val	gccga aag a Lys 1 gga Gly -5 gtg	gagaga atgga aac Asn -20 ggt Gly aag	c 120 a 180 229) ∂ ∂
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	Asn Al	ct aga la Arg	Glu 10	Thr	Ile	Lys	Gly	Ile 15	Gln	Lys	Arg	Glu	Ala 20	Ser	Asn	382
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ļaš	,	-55				- 1 -	-50	9	Dea	Dea	nsp	-45	Val	Giu	neu	
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yaa	aaat	yua '	yuaai	الالالا	LL di	acad(	Jayı	י נטו	LULa	Jacg	acti	Laag	yaa (	ιιται	LCTATG	737

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	Pro	Glu -55	Phe	aag Lys	Gly	Phe	Ser -50	Cys	Leu	Ser	Leu	Pro -45	Ser	Ser	Trp	Asp	5	09
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	Glu	Thr	Gly	ctt Leu	His -20	His	Val	Gly	Gln	Ala -15	Gly	Leu	Glu	Leu	Leu -10	Thr	6	05
, == <u>-</u>	Ser	Cys	Ser	cca Pro -5	Pro	Ala	Ser	Ala	Ser 1	Gln	Ser	Ala	Ala 5	Ile	Thr	Gly	6	53
144	vai	Ser 10	HIS	gtg Val	Pro	стА	Lуs 15	ьys	гÀ2	ьeu	Leu	Lys 20	Val	GIu	ГÀЗ	Lys	7	01
4a F2,	Asn 25	Leu	Arg	Xaa	Leu	Leu 30	Thr	Xaa				taat	aaaa	act a	accad	ccgaa		54
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in Arg Pro Pro Cys Ile Lys Gly Trp Ile Pro Trp Ile Gly Val Gly Phe 10 15 20	268
gak ttt ggg aaa gcc cct cta gaa ttt ata gag aaa gca aga atc aag """ "" " " " " " " " " " " " " " "	316
gta tgt ggt cgt ggc ava cgg ggt ctc cag agg aga caa tgc ttt ctt Val Cys Gly Arg Gly Xaa Arg Gly Leu Gln Arg Arg Gln Cys Phe Leu 45	364
##ttt taaactttct ttcattgact cttaagtgca gggctagaac acggggaaca	417
he lasertage control and the last temperature in the l	477
caacaatatc ctgtgcaaaa ttttgcgaaa gaaatgaaat	537
catttttgga agtagagatt aacyyttcgt atttttactt cmtcgaagtt aagttccaaa	597
tgtgtatgtg ttaagtaaat gttttcagta aytgggaaag ataaagtgta atccaattta	657
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-50 -45 -40 gat gtg gct gtg acc ttt acc cgg gag gag tgg aga cag ctg gac ctg Asp Val Ala Val Thr Phe Thr Arg Glu Glu Trp Arg Gln Leu Asp Leu -35 -30 -25	275
gcc cag agg acc ctg tac cga gag gtg atg ctg gag acc tgt ggg ctt and Ala Gln Arg Thr Leu Tyr Arg Glu Val Met Leu Glu Thr Cys Gly Leu -20 -15 -10	323
ctg gtt tca cta ggg caa agc att tgg ctg cat ata aca gaa aac cag Leu Val Ser Leu Gly Gln Ser Ile Trp Leu His Ile Thr Glu Asn Gln 1 5 10	371
Tatc aaa ctg gct tca cct gga agg aaa ttc act aac tcg cct gat gag Tile Lys Leu Ala Ser Pro Gly Arg Lys Phe Thr Asn Ser Pro Asp Glu 15 20 25	419
aag cct gag gtg tgg ttg gct cca ggc ctg ttc ggt gcc gca gcc cag Ala Pro Gly Leu Phe Gly Ala Ala Ala Gln 30 35 40	467
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	u G				gct Ala				ctc					aat			220
ag Ar	a co	cc	ccg Pro	tgc Cys	atc Ile 10	aag Lys	ggc	tgg Trp	att Ile	cct Pro 15	tgg Trp	att Ile	gga Gly	gtt Val	gga Gly 20	ttt	268
ga Gl	g tt u Pl	tt ne	ggg Gly	aaa Lys 25	gcc Ala	cct Pro	cta Leu	gaa Glu	ttt Phe 30	ata Ile	gag Glu	aaa Lys	gca Ala	aga Arg 35	atc Ile	aag Lys	316
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Na	1 Th 55 10> 11> 12> 13> 20> 21> 22> 23>	71 54 DN. Ho: 12 Vo sc se	Glu 3 A mo s g_pe 9 n He ore q SI	Glu sapic 176 21jne 4.80 LFIY:	de e mat 00000 IFLTO	Arg	Asn 60		egt gt	ett o	ctaaa	aat	ca aa	aaaa	aaaa	a a	416
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Ectg att cag cat gat ccc tgt gag ctg gtt ctc aca atc tcc tgg gac

Leu Ile Gln His Asp Pro Cys Glu Leu Val Leu Thr Ile Ser Trp Asp

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Thr Gly Asn Pro Leu Pro Pro Gln Ile Phe Asn Glu Ser Gln Tyr Arg -40 -35 -30	
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Gly Asp Tyr Asp Ala Phe Phe Glu Ala Arg Glu Asn Asn Ala Val Tyr -25 -20 -15	
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Ala Phe Leu Gly Leu Thr Ala Pro Ser Gly Ser Lys Glu Ala Gly Arg	
-10 -5 1 5	
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                       Met Pro Leu Cys Gln Ile Glu Met Glu Tyr
                           -75
                                               -70
 ctg tta tta aag tgg caa atg aca atg ctc cag agc atg ctt tgc gac
                                                                       280
 Leu Leu Lys Trp Gln Met Thr Met Leu Gln Ser Met Leu Cys Asp
                      -60
                                          -55
 ctg gtt tct tat cca ctt ttg ccc ttg caa cag acc aag gaa gca aac
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 Leu Val Ser Tyr Pro Leu Leu Pro Leu Gln Gln Thr Lys Glu Ala Asn
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                                      -40
                                                          -35
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age age age get all all git age eta gaa aag gaa ett	472										
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1 5 10 . 15											
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Ala Pro Leu Phe Glu Glu Leu Arg Gln Val Val Glu Val Ser											
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-20 -15 -10											
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Leu Ala Leu Gln Leu Val Pro Gly Ser Pro Lys Gln Arg Val Leu Lys											
-5 1 5											
<u>-</u>											
tat atc ttg gaa cct cca ccc tgc ata tca gca cct gaa aac tgt act	205										
Tyr Ile Leu Glu Pro Pro Pro Cys Ile Ser Ala Pro Glu Asn Cys Thr											
10 15 20											
cac ctg tgt aca atg cag gaa gat tgc gag aaa gga ttt cag tgc tgt	253										
	253										
His Leu Cys Thr Met Gln Glu Asp Cys Glu Lys Gly Phe Gln Cys Cys											
25 30 35 40											
tcc tcc ttc tgt ggg ata gtc tgt tca tca gaa aca ttt caa aag cgc	301										
Ser Ser Phe Cys Gly Ile Val Cys Ser Ser Glu Thr Phe Gln Lys Arg											
, 45 50 55											
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aac aga atc aaa cac aag ggc tca gaa gtc atc atg cct gcc aac	346										

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Asn Arg Ile Lys His Lys Gly Ser Glu Val Ile Met Pro Ala Asn
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                                                                                                                                                                 180
    tctgaagagc agccagtgtt tcggcttgtg ccctgtatac ttgaagctgc caaacaagta
                                                                                                                                                                 240
faction can be called the case of the case
                                                                                                                                                                 294
2Ē
                                                                                        Met His Ile Leu Gln Leu Leu
لِرا
                                                                                                          -40
act aca gtg gat gat gga att caa gca att gta cat tgt cct gac act
                                                                                                                                                                 342
Thr Thr Val Asp Asp Gly Ile Gln Ala Ile Val His Cys Pro Asp Thr
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                                                  -30
                                                                                               -25
    gga aaa gac att tgg aat tta ctt ttt gac ctg gtc tgc cat gaa ttc
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    Gly Lys Asp Ile Trp Asn Leu Leu Phe Asp Leu Val Cys His Glu Phe
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                                                                                                                                                                 438
    Cys Gln Ser Asp Asp Pro Ala Ile Ile Leu Gln Glu Gln Lys Thr Val
    cta gcc tct gtt ttt tca gtg ttg tct gcc atc tat gcc tca cag act
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    Leu Ala Ser Val Phe Ser Val Leu Ser Ala Ile Tyr Ala Ser Gln Thr
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    gag caa gag tat cta aag ata gaa aaa gta gat ctt cct cta att gac
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    Glu Gln Glu Tyr Leu Lys Ile Glu Lys Val Asp Leu Pro Leu Ile Asp
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    Ser Leu Ile Arg Val Leu Gln Asn Met Glu Gln Cys Gln Lys Lys Pro
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🏭 agagetattt cettecacag ggggeettge agggaagggt ceaggaettg acatettaag
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Hatg cgt ctt gtc ccc ttg ggc cag tca ttt ccc ctc tct gag cct cgg
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 Met Arg Leu Val Pro Leu Gly Gln Ser Phe Pro Leu Ser Glu Pro Arg
                      -10
 tgt ctt caa cct gtg aaa tgg gat cat aat cac tgc ctt acc tcc ctc
                                                                        516
 Cys Leu Gln Pro Val Lys Trp Asp His Asn His Cys Leu Thr Ser Leu
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 acg gtt gtt gtg agg act gag tgt gtg gaa gtt ttt cat aaa ctt tgg
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  tetteetgaa aaaggaa atg aac agg gte eet get gat tet eea aat atg
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                     Met Asn Arg Val Pro Ala Asp Ser Pro Asn Met
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🚌 aaa atc tgt aga aga gca ttc cag gaa gag gga aga gca aat gca aaq
                                                                        326
Lys Ile Cys Arg Arg Ala Phe Gln Glu Glu Gly Arg Ala Asn Ala Lys
acg ggc gtg aga gct tgg tgc ata cag cca tgg gcc aaa taaagtttcc
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                                                      Met Leu Gln
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Thr	Ser	Asn	Tyr	Ser	Leu	Val	Leu	Ser	Leu	Gln	Phe	Leu	Leu	Leu	Ser	
			-15			•		-10					-5			
	gac															271
	Asp	1				5					10		_			
gtc	atc	cag	ctt	gtg	ctc	ttc	atc	atc	cag	gat	att	gca	gtc	ctc	ttc	319
	Ile	Gln	Leu	Val		Phe	Ile	Ile	Gln		Ile	Ala	Val	Leu		
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	atc															367
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gct	ggc	ctg	gtc	aac	ctc	cta	ttc	cat	aag	ttc	aaa	ggg	acc	atc	atc	415
Ala	Gly	Leu		Asn	Leu	Leu	Phe		Lys	Phe	Lys	Gly		Ile	Ile	
	••		50					55					60			
ctg	aca	gct	gtg	tac	דדד	gcc	CtC	agc	atc	tcc	ctt	cat	gtc	tgg	gtc	463
	Thr	65					70					75		_		
	aac															511
Met	Asn 80	Leu	Arg	Trp	Lys	Asn 85	Ser	Asn	Ser	Phe	Ile 90	Trp	Thr	Asp	Gly	
, _z ctt	caa	atg	ctg	ttt	gta	ttc	cag	aga	cta	gca	gca	gtg	ttg	tac	tgc	559
Leu	Gln	Met	Leu	Phe	Val	Phe	Gln	Arg	Leu	Ala	Ala	Val	Leu	Tyr	Cys	
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Tyr	Phe	Tyr	Lys		Thr	Ala	Val	Arg		G1 y	Asp	Pro	His		Tyr	
e#				115					120					125		
cag																652
Gln	Asp	Ser		Trp	Leu	Arg	Lys		Phe	Met	Gln	Val	_	Arg		
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Lgca	ggga	aga ç	gttgg	Jecet	ια το	gcato	gggca	a aac	cagct	gga	CTT	ccaa	agg a	aaggt	tcaga	772
Ctac	getgt	gt t	cago	catto	a aq	gaago	gaaga	a tco	ccc	CTCT	tgca	caat	ta q	gagto	gtcccc	832
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ingacc	rcace	ay r	++ya(,caac	.y ye	tace	rcaer	a yuq	jala(,d	cynt	.gc:0	-++ ·	yacıç stanı	atcac atagag	1072
aata	aatt	ra i	a ç	,a		1000	-caa(y yca	2006 20	.add	adda	icget	6	ıLdda	ıcagag	1132
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cac atc cac aga gca gag atc tca aag att atg cga gaa tgt cag g His Ile His Arg Ala Glu Ile Ser Lys Ile Met Arg Glu Cys Gln G -35 -30 -25	
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ctt gga aag gta tca tac ata gga gta tgc cag agt aaa ttc cat to ca	he
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ttc a	tt aag	acc	atg	atg	atc	ctc	ttc	aat	ttg	ctc	atc	ttt	ctg	tgt	162
Phe I	le Lys	Thr	Met	Met	Ile	Leu	Phe	Asn	Leu	Leu	Ile	Phe	Leu	Cys	
			-15					-10					-5		
ggc t	tc acc	aac	tat	acg	gat	ttt	gag	gac	tca	CCC	tac	ttc	aaa	atg	210
Gly P	he Thr	Asn	Tyr	Thr	Asp	Phe	Glu	Asp	Ser	Pro	Tyr	Phe	Lys	Met	
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                                                 Met Trp Trp Phe
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                                                -5
  gct gct ttc ata ttt tca tac att act gca gta aca ctc cac cat ata
                                                                    453
  Ala Ala Phe Ile Phe Ser Tyr Ile Thr Ala Val Thr Leu His His Ile
                                        10
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  Asp Pro Ala Leu Pro Tyr Ile Ser Asp Thr Gly Thr Val Ala Pro Glu
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aaa ta Lys	agaaat	cag q	gaaga	taat	t ca	actt	aaag	g aaq	gttca	attt	cato		aa		602
ctctte gtctge tggta	cagaa a gcaat a aggtg o ttgaa a	attto ggctt	tgca ttcc	g to	gaaa ctgtg	attt taat	gat	ttag	gcta csac	gtto	cttga ctact	ct t	ggat	aaata	662 722 782 829
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agc ccc ggc agc gcc ttg gcc ctt ctg tgg tcc ctg cca gcc tct gac Ser Pro Gly Ser Ala Leu Ala Leu Leu Trp Ser Leu Pro Ala Ser Asp -15 -10 -5	227
ctg ggc cgg tca gtc att gct gga ctc tgg cca cac act ggc gtt ctc Leu Gly Arg Ser Val Ile Ala Gly Leu Trp Pro His Thr Gly Val Leu 1 5 10	275
atc cac ttg gaa aca agc cag tct ttt ctg caa ggt cag ttg acc aag [a] Ile His Leu Glu Thr Ser Gln Ser Phe Leu Gln Gly Gln Leu Thr Lys [a] 15 20 25 30	323
agc ata ttt ccc ctc tgt tgt aca tcg ttg ttt tgt gtt tgt gta has Ser Ile Phe Pro Leu Cys Cys Thr Ser Leu Phe Cys Val Cys Val Val 35 40 45	371
Laca gtg ggt gga ggg agg gtg ggg tct aca ttt gtt gca tgagtcgatg Thr Val Gly Gly Arg Val Gly Ser Thr Phe Val Ala 50 55	420
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atg aga ctg cct cca gca ctg cct tca gga tat act gat tct act gct	226
Met Arg Leu Pro Pro Ala Leu Pro Ser Gly Tyr Thr Asp Ser Thr Ala -45 -40 -35	
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Leu Glu Gly Leu Val Tyr Tyr Leu Asn Gln Lys Leu Leu Phe Ser Ser	274
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5 10 15	
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Thr Tyr Ser Pro Leu Pro Ile Ile Pro Phe Gln Leu His Gly Arg Phe	
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Met Asp	117
tot agg gtg tot toa oot gag aag caa gat aaa gag aat tto gtg ggt	165
Ser Arg Val Ser Ser Pro Glu Lys Gln Asp Lys Glu Asn Phe Val Gly	103
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gtc aac aat aaa cgg ctt ggt gta tgt ggc tgg atc ctg ttt tcc ctc	213
Val Asn Asn Lys Arg Leu Gly Val Cys Gly Trp Ile Leu Phe Ser Leu	
-20 -15 -10	
tct ttc ctg ttg gtg atc att acc ttc ccc atc tcc ata tgg atg tgc	261
Ser Phe Leu Leu Val Ile Ile Thr Phe Pro Ile Ser Ile Trp Met Cys	
- 5 1 5	
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Leu Lys Ile	
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Leu Glu Ser Pro Ile Asp Pro Gln Pro Leu Ser Phe Lys Glu Pro Pro
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[al Leu Leu Leu Gly Val Leu His Pro Asn Thr Lys Leu Arg Gln Ala Glu
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Arg Leu Phe Glu Asn Gln Leu Val Gly Pro Glu Ser Ile Ala His Ile
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  Gly Asp Val Met Phe Thr Gly Thr Ala Asp Gly Arg Val Val Lys Leu
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                                       -10
  Val Phe Ser Leu Lys Gln Leu Lys Lys Lys Ser Trp Ser Lys Tyr Leu
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610

670

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850

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952

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Pro Ile Phe Ser Pro Gly Pro Phe Pro Cys Gly His Arg Glu Val Trp
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Pro Glu Tyr Pro Thr Pro Ala Pro Leu His Pro Glu Leu Gly Ala Thr
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Ser Glu Val Ser Ser Leu Ser Glu His Xaa Phe Pro Cys Ser Ser Arg
             8.5
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Gly Leu Ser Arg Leu Ser Asp Ala Gly Ala Xaa Xaa Pro Glu Xaa Lys
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🔢 Gly Val Gln Pro Val Val Cys Lys Ala Leu Xaa Gly Thr Ala Glu Thr
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                                           -55
  Phe Leu Ser Thr Phe Ala Leu Ala Thr Asp Gln Gly Ser Lys Leu Gly
                  -45
                                       -40
  Leu Ser Lys Asn Lys Ser Ile Ile Cys Tyr Tyr Asn Thr Tyr Gln Val
                                  -25
  Val Gln Phe Asn Arg Leu Pro Leu Val Val Ser Phe Ile Ala Ser Ser
                              -10
  Ser Ala Asn Thr Gly Leu Ile Val Ser Leu Glu Lys Glu Leu Ala Pro
E Leu Phe Glu Glu Leu Arg Gln Val Val Glu Ile Ser
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  Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr
           · -5
  Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys
                          15
                                               20
  Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys
                      30
                                           35
  Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Xaa Ala Ala
                  45
                                       50
  Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile
  Ile Ser Val Val Gly Met Xaa Cys Thr Val Phe Cys Gln Glu Ser Arg
                              80
  Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly
  Gly Leu Leu Gly Phe Ile Pro Val Ala Trp Asn Leu His Gly Ile Leu
                      110
                                           115
  Arg Asp Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile
                  125
                                      130
  Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile
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145
                                                      150
  Ala Gly Ile Ile Leu Cys Phe Ser Cys Ser Ser Gln Arg Asn Arg Ser
                              160
                                               165
  Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser
                          175
                                            180
  Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr
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                                          195
  Ser Leu Thr Gly Tyr Val
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                             ~25
gly Tyr Gly Val Pro Met Leu Leu Leu Ile Val Gly Gly Ser Phe Gly
|<u>-</u>≛ -15
                          -10
Leu Arg Glu Phe Ser Gln Ile Arg Tyr Asp Ala Val Lys Ser Lys Met
                                     10
Asp Pro Glu Leu Glu Lys Lys Pro Lys Glu Asn Lys Ile Ser Leu Glu
             20
                                  25
Ser Glu Tyr Glu Gly Ser Ile Cys
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|si <211> 91
<212> PRT
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  <400> 94
  Met Asn Thr Phe Glu Pro Asp Ser Leu Ala Val Ile Ala Phe Phe Leu
                          -30
                                              -25
  Pro Ile Trp Thr Phe Ser Ala Leu Thr Phe Leu Phe Leu His Leu Pro
                      -15
                                          -10
  Pro Ser Thr Ser Leu Phe Ile Asn Leu Ala Arg Gly Gln Ile Lys Gly
  Pro Leu Gly Leu Ile Leu Leu Ser Phe Cys Gly Gly Tyr Thr Lys
                              20
  Cys Asp Phe Ala Leu Ser Tyr Leu Glu Ile Pro Asn Arg Ile Glu Phe
                         35
  Ser Ile Met Asp Pro Lys Arg Lys Thr Lys Cys
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  Met Phe Ala Pro Ala Val Met Arg Ala Phe Arg Lys Asn Lys Thr Leu
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                               -25
  Gly Tyr Gly Val Pro Met Leu Leu Leu Ile Val Gly Gly Ser Phe Gly
                           -10
                                               -5
  Leu Arg Glu Phe Ser Gln Ile Arg Tyr Asp Ala Val Lys Gly Lys Met
                                                           1.5
  Asp Pro Glu Leu Glu Lys Lys Leu Lys Glu Asn Lys Ile Ser Leu Glu
                                   25
  Ser Glu Tyr Glu Lys Ile Lys Asp Ser Lys Phe Asp Asp Trp Lys Asn
          35
                               40
                                                   45
  Ile Arg Gly Pro Arg Pro Trp Glu Asp Pro Asp Leu Leu Gln Gly Arg
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  Asn Pro Glu Ser Leu Lys Thr Lys Thr Thr
                      70
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                                              -10
Ile Trp Thr Ser Ala Ala Phe Ile Phe Ser Tyr Ile Thr Ala Val Thr
  Leu His His Ile Asp Pro Ala Leu Pro Tyr Ile Ser Asp Thr Gly Thr
                                   20
  Val Ala Pro Glu Lys Cys Leu Phe Gly Ala Met Leu Asn Ile Ala Ala
                               35
  Val Leu Cys Ile Ala Thr Ile Tyr Val Arg Tyr Lys Gln Val His Ala
                          50
                                               55
  Leu Ser Pro Glu Glu Asn Val Ile Ile Lys Leu Asn Lys Ala Gly Leu
                                           70
  Val Leu Gly Ile Leu Ser Cys Leu Gly Leu Ser Ile Val Ala Asn Phe
                  80
  Gln Glu Asn Asn Pro Phe Cys Cys Thr Cys Lys Trp Ser Cys Ala Tyr
                                   100
  Leu Trp Tyr Gly Leu Ile Ile Tyr Val Cys Ser Asp His Pro Phe Leu
                              115
          110
                                                   120
  Pro Lys Cys Ser Pro Lys Ser Asn Gly Lys Thr Ser Leu Leu Asp Gln
                          130
                                               135
  Thr Val Val Gly Tyr Leu Val Trp Ser Lys Cys Thr
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  Met Cys Phe Pro Glu His Arg Arg Gln Met Tyr Ile Gln Asp Arg Leu
                               -35
                                                   -30
  Asp Ser Val Thr Arg Arg Ala Arg Gln Gly Arg Ile Cys Ala Ile Leu
                          -20
                                               -15
  Leu Leu Gln Ser Gln Cys Ala Tyr Trp Ala Leu Pro Glu Pro Arg Thr
                      -5
                                           1
  Leu Asp Gly Gly His Leu Met Gln
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Het Gln Asn His Leu Gln Thr Arg Pro Leu Phe Leu Thr Cys Leu Phe
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                              -15
                                                   -10
🏝 Trp Pro Leu Ala Ala Leu Asn Val Asn Ser Thr Phe Glu Cys Leu Ile
Leu Gln Cys Ser Val Phe Ser Phe Ala Phe Phe Ala Leu Trp
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  Met Trp Arg Leu Leu Ala Arg Ala Ser Ala Pro Leu Leu Arg Val Pro
                                  -20
                                                      -15
  Leu Ser Asp Ser Trp Ala Leu Leu Pro Ala Ser Ala Gly Val Lys Thr
          -10
  Leu Leu Pro Val Pro Ser Phe Glu Asp Val Ser Ile Pro Glu Lys Pro
                                          .15
                      10
  Lys Leu Arg Phe Ile Glu Arg Ala Pro Leu Val Pro Lys Val Arg Arg
                                       30
  Glu Pro Lys Asn Leu Ser Asp Ile Arg Gly Pro Ser Thr Glu Ala Thr
```

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40
                                 . 45
  Glu Xaa Thr Glu Gly Asn Phe Ala Ile Leu Ala Leu Gly Gly Gly Tyr
                               60
  Leu His Trp Gly His Phe Glu Met Met Arg Leu Thr Ile Asn Arg Ser
                           75
  Met Asp Pro Lys Asn Met Phe Ala Ile Trp Arg Val Pro Ala Pro Phe
                      90
                                          95
  Lys Pro Ile Thr Arg Lys Ser Val Gly His Arg Met Gly Gly Lys
                  105
                                      110
  Gly Ala Ile Asp His Tyr Val Thr Pro Val Lys Ala Gly Arg Xaa Xaa
              120
                                   125
  Val Glu Met Gly Gly Arg Cys Xaa Phe Glu Glu Val Gln Gly Phe Leu
          135
                              140
                                                  145
  Asp Gln Val Ala His Lys Leu Pro Phe Ala Ala Lys Ala Val Ser Arg
                          155
  Gly Thr Leu Glu Lys Met Arg Lys Asp Gln Glu Glu Arg Glu Xaa Asn
                      170
                                          175
  Asn Gln Asn Pro Trp Thr Phe Glu Arg Ile Ala Thr Ala Xaa Met Leu
                  185
                                       190
  Gly Ile Arg Lys Val Leu Ser Pro Tyr Asp Leu Thr His Lys Gly Lys
              200
                                  205
  Xaa Trp Gly Lys Phe Tyr Met Pro Xaa Arg Val
          215
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                                          -20
Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr Thr Leu Thr
                  -10
                                      -5
  Val Gly Gly Val Phe Ala Leu Val Thr Ala Val Cys Cys Leu Ala
                              10
  Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn Pro Ser Gly Pro
                          25
  Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val Leu
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  Met Ser Asn Thr His Thr Val Leu Val Ser Leu Pro His Pro His Pro
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100

12

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                                               -20
  Ala Leu Thr Cys Cys His Leu Gly Leu Pro His Pro Val Arg Ala Pro
                                        · -5
  Arg Pro Leu Pro Arg Val Glu Pro Trp Asp Pro Arg Trp Gln Asp Ser
                                  10
  Glu Leu Arg Tyr Pro Gln Ala Met Asn Ser Phe Leu Asn Glu Arg Ser
  Ser Pro Cys Arg Thr Leu Arg Gln Glu Ala Ser Ala Asp Arg Cys Asp
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  Leu
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Met Lys Val His Met His Thr Lys Phe Cys Leu Ile Cys Leu Leu Thr
                      -15
                                          -10
Fig Phe Ile Phe His His Cys Asn His Cys His Glu Glu His Asp His Gly
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Pro Glu Ala Leu His Arg Gln His Arg Gly Met Thr Glu Leu Glu Pro
         15
                              20
Ser Lys Phe Ser Lys Gln Ala Ala Glu Asn Glu Lys Lys Tyr Tyr Ile
                          35
H Glu Lys Leu Phe Glu Arg Tyr Gly Glu Asn Gly Arg Leu Ser Phe Phe
                      50
| Gly Leu Glu Lys Leu Leu Thr Asn Leu Gly Leu Gly Glu Arg Lys Val
                                      70
Val Glu Ile Asn His Glu Asp Leu Gly His Asp His Val Ser His Leu
                                  85
Arg Tyr Phe Gly Ser Ser Arg Gly Lys Ala Phe Ser Leu Thr
                              100
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  <221> SIGNAL
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  Met Asn Trp Ser Ile Phe Glu Gly Leu Leu Ser Gly Val Asn Lys Tyr
  Ser Thr Ala Phe Gly Arg Ile Trp Leu Ser Leu Val Phe Ile Phe Arg
                  -25
                                      -20
  Val Leu Val Tyr Leu Val Thr Ala Glu Arg Val Trp Ser Asp Asp His
                                  -5
  Lys Asp Phe Asp Cys Asn Thr Arg Gln Pro Gly Cys Ser Asn Val Cys
```

10 15 Phe Asp Glu Phe Phe Pro Val Ser His Val Arg Leu Trp Ala Leu Gln Leu Ile Leu Val Thr Cys Pro Ser Leu Leu Val Val Met His Val Ala Tyr Arg Glu Val Gln Glu Lys Arg His Arg Glu Ala His Gly Glu Asn 60 Ser Gly Arg Leu Tyr Leu Asn Pro Gly Lys Lys Arg Gly Gly Leu Trp Trp Thr Tyr Val Cys Ser Leu Val Phe Lys Ala Ser Val Asp Ile Ala 90 Phe Leu Tyr Val Phe His Ser Phe Tyr Pro Lys Tyr Ile Leu Pro Pro 110 Val Val Lys Cys His Ala Asp Pro Cys Pro Asn Ile Val Asp Cys Phe 120 125 Ile Ser Lys Pro Ser Glu Lys Asn Ile Phe Thr Leu Phe Met Val Ala 140 Thr Ala Ala Ile Cys Ile Leu Leu Asn Leu Val Glu Leu Ile Tyr Leu 155 Val Ser Lys Arg Cys His Glu Cys Leu Ala Ala Arg Lys Ala Gln Ala 170 175 Met Xaa Thr Gly His His Pro Xaa Asp Thr Thr Phe Ser Xaa Lys Gln 185 190 🖺 Xaa Asp Xaa Xaa Ser Gly Asp Xaa Ile Phe Leu Gly Ser Asp Ser His 200 205 🏥 Xaa Pro Xaa Leu Pro Asp Arg Pro Arg Asp His Val Lys Lys Thr Ile 215 220 Leu Ü <210> 104 < <211> 158 == <212> PRT | de de la como sapiens a li <220> (221> SIGNAL == <222> -37..-1 <400> 104 Met Ala Ser Lys Ile Leu Leu Asn Val Gln Glu Glu Val Thr Cys Pro -30 Ile Cys Leu Glu Leu Leu Thr Glu Pro Leu Ser Leu Asp Cys Gly His -15 Ser Leu Cys Arg Ala Cys Ile Thr Val Ser Asn Lys Glu Ala Val Thr Ser Met Gly Gly Lys Ser Ser Cys Pro Val Cys Gly Ile Ser Tyr Ser 20 Phe Glu His Leu Gln Ala Asn Gln His Arg Ala Asn Ile Val Glu Arg 35 Leu Lys Glu Val Lys Leu Ser Pro Asp Asn Gly Lys Lys Arg Asp Leu Cys Asp His His Gly Glu Lys Leu Leu Phe Cys Lys Glu Asp Arg 65 70 Lys Val Ile Cys Trp Leu Cys Glu Arg Ser Gln Glu His Arg Gly His 85 His Thr Gly Pro His Gly Gly Ser Ile Gln Gly Met Ser Gly Glu Thr

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Pro Gly Ser Pro Gln Glu Ala Glu Glu Gly Arg Gly Gly Ser

110

Ile Cys Leu Ile Leu Ile Val Ile Phe Met Ile Thr Lys Leu Ser Arg 170 Asp Arg His Arg Ala Arg Arg Asn Arg Leu Arg Lys Asp Gln Leu Lys 175 180 185 Lys Leu Pro Val His Lys Phe Lys Lys Gly Asp Glu Tyr Asp Val Cys 200 Ala Ile Cys Leu Asp Glu Tyr Glu Asp Gly Asp Lys Leu Arg Ile Leu 215 Pro Cys Ser His Ala Tyr His Cys Lys Cys Val Asp Pro Trp Leu Thr 230 Lys Thr Lys Lys Thr Cys Pro Val Cys Arg Gln Lys Val Val Pro Ser 245 250 Gln Gly Asp Ser Asp Ser Asp Thr Asp Ser Ser Gln Glu Glu Asn Glu 260 265 Val Thr Glu His Thr Pro Leu Leu Arg Pro Leu Xaa Phe Cys Gln Cys 275 280 Pro Xaa Xaa Phe Gly Ala Leu Xaa Gly Xaa Pro Ala His Xaa Gln Xaa 295 His Asp Arg Ile Ile Gln Thr Xaa Glu Glu Asp Asp Asn Glu Asp Thr 305 310 Asp Ser Ser Asp Ala Glu Glu 22 ıD **|== <210> 107** 信<211> 291 | <212> PRT <213> Homo sapiens <220> <221> SIGNAL <222> -42..-1 == <400> 107 Met Asp Ser Arg Val Ser Ser Pro Glu Lys Gln Asp Lys Glu Asn Phe -40 Val Gly Val Asn Asn Lys Arg Leu Gly Val Cys Gly Trp Ile Leu Phe -20 Ser Leu Ser Phe Leu Leu Val Ile Ile Thr Phe Pro Ile Ser Ile Trp Met Cys Leu Lys Ile Ile Lys Glu Tyr Glu Arg Ala Val Val Phe Arg 15 Leu Gly Arg Ile Gln Ala Asp Lys Ala Lys Gly Pro Gly Leu Ile Leu Val Leu Pro Cys Ile Asp Val Phe Val Lys Val Asp Leu Arg Thr Val 45 Thr Cys Asn Ile Pro Pro Gln Glu Ile Leu Thr Arg Asp Ser Val Thr Thr Gln Val Asp Gly Val Val Tyr Tyr Arg Ile Tyr Ser Ala Val Ser 75 80 Ala Val Ala Asn Val Asn Asp Val His Gln Ala Thr Phe Leu Leu Ala 95 Gln Thr Thr Leu Arg Asn Val Leu Gly Thr Gln Thr Leu Ser Gln Ile 110 Leu Ala Gly Arg Glu Glu Ile Ala His Ser Ile Gln Thr Leu Leu Asp 125 130 Asp Ala Thr Glu Leu Trp Gly Ile Arg Val Ala Arg Val Glu Ile Lys 135 140 145

Asp Val Arg Ile Pro Val Gln Leu Gln Arg Ser Met Ala Ala Glu Ala 155 160 Glu Ala Thr Arg Glu Ala Arg Ala Lys Val Leu Ala Ala Glu Gly Glu 170 175 Met Ser Ala Ser Lys Ser Leu Lys Ser Ala Ser Met Val Leu Ala Glu 190 Ser Pro Ile Ala Leu Gln Leu Arg Tyr Leu Gln Thr Leu Ser Thr Val 205 210 Ala Thr Glu Lys Asn Ser Thr Ile Val Phe Pro Leu Pro Met Asn Ile 220 225 Leu Glu Gly Ile Gly Gly Val Ser Tyr Asp Asn His Lys Lys Leu Pro 235 240 Asn Lys Ala <210> 108 <211> 67 <212> PRT <213> Homo sapiens <220> <221> SIGNAL <222> -26..-1 <400> 108 Met Ser Thr Trp Leu Leu Leu Ile Ala Leu Lys Thr Leu Ile Thr Trp -25 -20 -15 Val Ser Leu Phe Ile Asp Cys Val Met Thr Arg Lys Leu Thr Asn Cys -5 Asn Ala Arg Glu Thr Ile Lys Gly Ile Gln Lys Arg Glu Ala Ser Asn 10 15 Gys Phe Ala Ile Arg His Phe Glu Asn Lys Phe Ala Val Glu Thr Leu a ii Ile Cys Ser 40 -2 <210> 109 **3**<211> 127 <212> PRT <213> Homo sapiens <220> <221> SIGNAL <222> -63..-1 <400> 109 Met Ser Ala Ala Gly Ala Arg Gly Leu Arg Ala Thr Tyr His Arg Leu -55 Leu Asp Lys Val Glu Leu Met Leu Pro Glu Lys Leu Arg Pro Leu Tyr -45 -40 Asn His Pro Ala Gly Pro Arg Thr Val Phe Phe Trp Ala Pro Ile Met -25 -20 Lys Trp Gly Leu Val Cys Ala Gly Leu Ala Asp Met Ala Arg Pro Ala -10 -5 Glu Lys Leu Ser Thr Ala Gln Ser Ala Val Leu Met Ala Thr Gly Phe 10 Ile Trp Ser Arg Tyr Ser Leu Val Ile Ile Pro Lys Asn Trp Ser Leu

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25
                                                   30
  Phe Ala Val Asn Phe Phe Val Gly Ala Ala Gly Ala Ser Gln Leu Phe
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  Arg Ile Trp Arg Tyr Asn Gln Glu Leu Lys Ala Lys Ala His Lys
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  Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Gly Ala Leu Leu Gly
                      -15
                                          -10
  Thr Ala Trp Ala Arg Arg Ser Arg Asp Leu His Cys Gly Ala Cys Arg
  Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys
                              20
Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln
                          35
Ser Val Val Glu Val Thr Val Thr Xaa Ser Pro Lys Thr Lys Val Ala
50 55 60
His Ser Gly Phe Trp Met Lys Ile Arg Leu Leu Lys Lys Gly Pro Trp
                                      70
∄ Ser
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  <400> 111
  Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Gly Ala Leu Leu Gly
                      -15
                                          -10
  Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg
  Ala Leu Val Asp Glu Thr Arg Met Gly Asn Cys Pro Gly Gly Pro Gln
                              20
  Glu Asp His Ser Asp Gly Ile Phe Pro Asp Gln Ser Arg Trp Gln Pro
                          35
                                              40
  Val Ser Gly Gly Gly Ala Leu Cys Pro Leu Arg Gly Pro Pro His Arg
  Ala Ala Gly Gly Asp Met
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142

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                      -20
                                          -15
  Ser Leu Leu Ala Met Cys Ala Gly Ala Glu Val Val His Arg Tyr Tyr
                  -5
  Arg Pro Asp Leu Thr Ile Pro Glu Ile Pro Pro Lys Arg Gly Glu Leu
                              15
  Lys Thr Glu Leu Leu Gly Leu Lys Glu Arg Lys His Lys Pro Gln Val
                          30
  Ser Gln Gln Glu Glu Leu Lys
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Met Asp Gly His Trp Ser Ala Ala Phe Ser Ala Leu Thr Val Thr Ala
   -40
                              -35
AMMET Ser Ser Trp Ala Arg Arg Arg Ser Ser Ser Arg Arg Ile Pro
                          -20
                                              -15
Ser Leu Pro Gly Ser Pro Val Cys Trp Ala Trp Pro Trp Tyr Pro Asp
 :-10
Thr Thr Ser Phe Pro Leu Arg Cys Arg Gly Arg Val
              10
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  <221> SIGNAL
  <222> -83..-1
  <400> 114
  Met Leu Pro Val Gln Ser Phe Thr Leu Val Ala Gln Ala Gly Val Gln
             -80
                                  -75
  Trp Arg His Leu Ser Ser Leu Gln Leu Leu Pro Pro Glu Phe Lys Gly
         -65
                              -60
                                                  -55
  Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro
                          -45
                                              -40
  Pro Cys Pro Ala Gly Phe Phe Val Phe Leu Val Glu Thr Gly Leu His
  -35
                      -30
                                          -25
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His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Cys Ser Pro Pro
                   -15
                                       -10
  Ala Ser Ala Ser Gln Ser Ala Ala Ile Thr Gly Val Ser His Val Pro
  Gly Lys Lys Leu Leu Lys Val Glu Lys Lys Asn Leu Arg Xaa Leu
                           20
  Leu Thr Xaa Ile Lys Thr
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  <400> 115
  Met Glu Leu Ile Ser Pro Thr Val Ile Ile Leu Gly Cys Leu Ala
                               -15
Leu Phe Leu Leu Leu Gln Arg Lys Asn Leu Arg Arg Pro Pro Cys Ile
  -5
                           1
Lys Gly Trp Ile Pro Trp Ile Gly Val Gly Phe Xaa Phe Gly Lys Ala
                  15
                                      20
  Pro Leu Glu Phe Ile Glu Lys Ala Arg Ile Lys Val Cys Gly Arg Gly
              30
                                   35
Xaa Arg Gly Leu Gln Arg Arg Gln Cys Phe Leu Phe
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<sub>så</sub> <211> 95
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  Met Ala Glu Thr Lys Asp Ala Ala Gln Met Leu Val Thr Phe Lys Asp
                               -45
  Val Ala Val Thr Phe Thr Arg Glu Glu Trp Arg Gln Leu Asp Leu Ala
                           -30
                                               -25
  Gln Arg Thr Leu Tyr Arg Glu Val Met Leu Glu Thr Cys Gly Leu Leu
                      -15
                                           -10
  Val Ser Leu Gly Gln Ser Ile Trp Leu His Ile Thr Glu Asn Gln Ile
  Lys Leu Ala Ser Pro Gly Arg Lys Phe Thr Asn Ser Pro Asp Glu Lys
                               20
  Pro Glu Val Trp Leu Ala Pro Gly Leu Phe Gly Ala Ala Ala Gln
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  Met Glu Leu Ile Ser Pro Thr Val Ile Ile Ile Leu Gly Cys Leu Ala
                              -15
                                                  -10
  Leu Phe Leu Leu Gln Arg Lys Asn Leu Arg Arg Pro Pro Cys Ile
  Lys Gly Trp Ile Pro Trp Ile Gly Val Gly Phe Glu Phe Gly Lys Ala
                  15
                                      20
  Pro Leu Glu Phe Ile Glu Lys Ala Arg Ile Lys Tyr Gly Pro Ile Phe
  Thr Val Phe Ala Met Gly Asn Arg Met Thr Phe Val Thr Glu Glu Gly
          45
                              50
  Arg Asn
      60
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Met Ile Ile Ser Leu Phe Ile Tyr Ile Phe Leu Thr Cys Ser Asn Thr
                          -10
Ser Pro Ser Tyr Gln Gly Thr Gln Leu Gly Leu Gly Leu Pro Ser Ala
                                      10
Gln Trp Trp Pro Leu Thr Gly Arg Arg Met Gln Cys Cys Arg Leu Phe
              20
ECys Phe Leu Leu Gln Asn Cys Leu Phe Pro Phe Pro Leu His Leu Ile
                              40
  Gln His Asp Pro Cys Glu Leu Val Leu Thr Ile Ser Trp Asp Trp Ala
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  Glu Ala Gly Ala Ser Leu Tyr Ser Pro
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  <222> -19..-1
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  Met Thr Met Ala Glu Cys Pro Thr Leu Cys Val Ser Ser Ser Pro Ala
                  -15
                                      -10
  Leu Trp Ala Ala Ser Glu Thr Thr Asp Asp Val Cys Arg Glu
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  <222> -103..-1
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                                  -95
  Lys Lys Lys Gln Gln Asp Val Leu Gly Phe Leu Glu Ala Asn Lys Ile
          -85
                              -80
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score 12. seq ALLLG <pre> seq ALLLG  </pre> <pre> </pre> <pre> <pre> </pre> <pre> &lt;</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>	ALLGTAWA/RR nal e cagcgg tetto	cagcg cttggg ag atg aaa g Met Lys G	gc tgg ggt tgg ctg gcc ( ly Trp Gly Trp Leu Ala :	ctg 114
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Gln Asp Leu His Cys Gly Ala Cys Arg Ala Leu Val Asp Glu Leu Glu  10 15	149
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Part of the first second secon	152 200													
Arg Val Tyr Ile Ala Ser Ser Ser Gly Ser Thr Ala Ile Lys Lys Lys	152 200 248													
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Gln		60					65					70			_	
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  Met Ser Pro Ala Phe Arg Ala Met Asp Val Glu Pro Arg Ala Lys Gly
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  Val Leu Leu Glu Pro Phe Val His Gln Val Gly Gly His Ser Cys Val
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-10
                               -5
  Leu Arg Phe Asn Glu Thr Thr Leu Cys Lys Pro Leu Val Pro Arg Glu
                       10
                                            15
  His Gln Phe Tyr Glu Thr Leu Pro Ala Glu Met Arg Lys Phe Ser Pro
                                       30
  Gln Tyr Lys Gly Gln Ser Gln Arg Pro Leu Val Ser Trp Pro Ser Leu
                                   45
  Pro His Phe Pro Trp Ser Phe Pro Leu Trp Pro Gln Gly Ser Val
  Ala
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Met Leu Gly Thr Thr Gly Leu Gly Thr Gln Gly Pro Ser Gln Gln Ala
         -30
                               -25
Leu Gly Phe Phe Ser Phe Met Leu Leu Gly Met Gly Gly Cys Leu Pro
   -15
                           -10
                                            -5
  Gly Phe Leu Leu Gln Pro Pro Asn Arg Ser Pro Thr Leu Pro Ala Ser
                                       10
Thr Phe Ala His
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  Met Ala Asp Asp Leu Lys Arg Phe Leu Tyr Lys Lys Leu Pro Ser Val
                               -90
                                                   -85
  Glu Gly Leu His Ala Ile Val Val Ser Asp Arg Asp Gly Val Pro Val
                           -75
                                                -70
  Val Lys Val Ala Asn Asp Asn Ala Pro Glu His Ala Leu Arg Pro Gly
                       -60
                                           -55
  Phe Leu Ser Thr Phe Ala Leu Ala Thr Asp Gln Gly Ser Lys Leu Gly
                                       -40
  Leu Ser Lys Asn Lys Ser Ile Ile Cys Tyr Tyr Asn Thr Tyr Gln Val
                                   -25
                                                        -20
  Val Gln Phe Asn Arg Leu Pro Leu Val Val Ser Phe Ile Ala Ser Ser
                               -10
  Ser Ala Asn Thr Gly Leu Ile Val Ser Leu Glu Lys Glu Leu Ala Pro
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  Leu Phe Glu Glu Leu Arg Gln Val Val Glu Val Ser
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  Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr
  Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys
                          15
  Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys
                      30
  Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala
                                      50
Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile
              60
at Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg
          75
                              80
Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly
                          95
Gly Leu Leu Gly Phe Ile Pro Val Ala Trp Asn Leu His Gly Ile Leu
                      110
                                          115
Arg Asp Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile
                  125
                                      130
##Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile
              140
                                  145
Ala Gly Ile Ile Leu Cys Phe Ser Cys Ser Ser Gln Arg Asn Arg Ser
                              160
Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser
                          175
Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr
                      190
                                          195
  Ser Leu Thr Gly Tyr Val
                  205
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  <400> 187
  Met Phe Ala Leu Ala Val Met Arg Ala Phe Arg Lys Asn Lys Thr Leu
      -30
                              -25
  Gly Tyr Gly Val Pro Met Leu Leu Leu Ile Ala Gly Gly Ser Phe Gly
      -15
                          -10
                                              -5
```

```
Leu Arg Glu Phe Ser Gln Ile Arg Tyr Asp Ala Val Lys Ser Lys Met
  Asp Pro Glu Leu Glu Lys Lys Pro Lys Glu Asn Lys Ile Ser Leu Glu
  Ser Glu Tyr Glu Gly Ser Ile Cys
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  <222> -33..-1
  <400> 188
  Met Ser Gln Thr Ala Trp Leu Ser Leu Leu Ser Ser Ser Pro Phe Gly
                                   -25
  Pro Phe Ser Ala Leu Thr Phe Leu Phe Leu His Leu Pro Pro Ser Thr
          -15
                               -10
                                                   -5
Ser Leu Phe Ile Asn Leu Ala Arg Gly Gln Ile Lys Gly Pro Leu Gly
1
                       5
                                           10
Leu Ile Leu Leu Leu Ser Phe Cys Gly Gly Tyr Thr Lys Cys Asp Phe
                  20
                                      25
_{rac{1}{2}rac{1}{2}} Ala Leu Ser Tyr Leu Glu Ile Pro Asn Arg Ile Glu Phe Ser Ile Met
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  Asp Pro Lys Arg Lys Thr Lys Cys
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  Gly Tyr Gly Val Pro Met Leu Leu Leu Ile Val Gly Gly Ser Phe Gly
                           -10
  Leu Arg Glu Phe Ser Gln Ile Arg Tyr Asp Ala Val Lys Ser Lys Met
                                       10
  Asp Pro Glu Leu Glu Lys Lys Leu Lys Glu Asn Lys Ile Ser Leu Glu
  Ser Glu Tyr Glu Lys Ile Lys Asp Ser Lys Phe Asp Asp Trp Lys Asn
                               40
  Ile Arg Gly Pro Arg Pro Trp Glu Asp Pro Asp Leu Leu Gln Gly Arg
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55

Asn Pro Glu Ser Leu Lys Thr Lys Thr Thr 65 70

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                          -15
  Ile Trp Thr Ser Ala Ala Phe Ile Phe Ser Tyr Ile Thr Ala Val Thr
  Leu His His Ile Asp Pro Ala Leu Pro Tyr Ile Ser Asp Thr Gly Thr
  Val Ala Pro Glu Lys Cys Leu Phe Gly Ala Met Leu Asn Ile Ala Ala
                              35
  Val Leu Cys Ile Ala Thr Ile Tyr Val Arg Tyr Lys Gln Val His Ala
  Leu Ser Pro Glu Glu Asn Val Ile Ile Lys Leu Asn Lys Ala Gly Leu
                      65
Val Leu Gly Ile Leu Ser Cys Leu Gly Leu Ser Ile Val Ala Asn Phe
                 80
                                      85
ind Gln Lys Thr Thr Leu Phe Ala Ala His Val Ser Gly Ala Val Leu Thr
              95
                                 100
Phe Gly Met Gly Ser Leu Tyr Met Phe Val Gln Thr Ile Leu Ser Tyr
                              115
  Gln Met Gln Pro Lys Ile His Gly Lys Gln Val Phe Trp Ile Arg Leu
                          130
Leu Leu Val Ile Trp Cys Gly Val Ser Ala Leu Ser Met Leu Thr Cys
                      145
                                          150
saser Ser Val Leu His Ser Gly Asn Phe Gly Thr Asp Leu Glu Gln Lys
                  160
                                      165
Leu His Trp Asn Pro Glu Asp Lys Gly Tyr Ala Leu His Met Ile Thr
                                 180
Thr Ala Ala Glu Trp Ser Met Ser Phe Ser Phe Gly Phe Phe Leu
        190
                              195
Thr Tyr Ile Arg Asp Phe Gln Lys Ile Ser Leu Arg Val Glu Ala Asn
                          210
                                             215
  Leu His Gly Leu Thr Leu Tyr Asp Thr Ala Pro Cys Pro Ile Asn Asn
                      225
                                          230
  Glu Arg Thr Arg Leu Leu Ser Arg Asp Ile Arg
                  240
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  <211> 108
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  Met Gly Cys Val Phe Gln Ser Thr Glu Asp Lys Cys Ile Phe Lys Ile
  Asp Trp Thr Leu Ser Pro Gly Glu His Ala Lys Asp Glu Tyr Val Leu
              20
                                  25
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Tyr Tyr Tyr Ser Asn Leu Ser Val Pro Ile Gly Arg Phe Gln Asn Arg 40 Val His Leu Met Gly Asp Ile Leu Cys Asn Asp Gly Ser Leu Leu Gln Asp Val Gln Glu Ala Asp Gln Gly Thr Tyr Ile Cys Glu Ile Arg 75 Leu Lys Gly Glu Ser Gln Val Phe Lys Lys Ala Val Val Leu His Val 8.5 Leu Pro Glu Glu Pro Lys Gly Thr Gln Met Leu Thr <210> 192 <211> 69 <212> PRT <213> Homo sapiens <220> <221> SIGNAL <222> -46..-1 <400> 192 Met Ser Val Phe Trp Gly Phe Val Gly Phe Leu Val Pro Trp Phe Ile -40 Pro Lys Gly Pro Asn Arg Gly Val Ile Ile Thr Met Leu Val Thr Cys -25 -20 Ser Val Cys Cys Tyr Leu Phe Trp Leu Ile Ala Ile Leu Ala Gln Leu -10 Asn Pro Leu Phe Gly Pro Gln Leu Lys Asn Glu Thr Ile Trp Tyr Leu Lys Tyr His Trp Pro 20 a. <210> 193 <211> 251 4 <212> PRT 4 < 213 > Homo sapiens <220> <221> SIGNAL <222> -28..-1 <400> 193 Met Trp Arg Leu Leu Ala Arg Ala Ser Ala Pro Leu Leu Arg Val Pro -25 -20 Leu Ser Asp Ser Trp Ala Leu Leu Pro Ala Ser Ala Gly Val Lys Thr -10 -5 Leu Leu Pro Val Pro Ser Phe Glu Asp Val Ser Ile Pro Glu Lys Pro 10 Lys Leu Arg Phe Ile Glu Arg Ala Pro Leu Val Pro Lys Val Arg Arg 30 Glu Pro Lys Asn Leu Ser Asp Ile Arg Gly Pro Ser Thr Glu Ala Thr 45 Glu Phe Thr Glu Gly Asn Phe Ala Ile Leu Ala Leu Gly Gly Gly Tyr 60 Leu His Trp Gly His Phe Glu Met Met Arg Leu Thr Ile Asn Arg Ser

```
Met Asp Pro Lys Asn Met Phe Ala Ile Trp Arg Val Pro Ala Pro Phe
                      90
                                           95
  Lys Pro Ile Thr Arg Lys Ser Val Gly His Arg Met Gly Gly Lys
                  105
                                      110
  Gly Ala Ile Asp His Tyr Val Thr Pro Val Lys Ala Gly Arg Leu Val
                                   125
  Val Glu Met Gly Gly Arg Cys Glu Phe Glu Glu Val Gln Gly Phe Leu
                              140
  Asp Gln Val Ala His Lys Leu Pro Phe Ala Ala Lys Ala Val Ser Arg
                          155
  Gly Thr Leu Glu Lys Met Arg Lys Asp Gln Glu Glu Arg Glu Arg Asn
                      170
                                          175
  Asn Gln Asn Pro Trp Thr Phe Glu Arg Ile Ala Thr Ala Asn Met Leu
                  185
                                      190
  Gly Ile Arg Lys Val Leu Ser Pro Tyr Asp Leu Thr His Lys Gly Lys
              200
                                  205
  Tyr Trp Gly Lys Phe Tyr Met Pro Lys Arg Val
                              220
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  <211> 99
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[]<213> Homo sapiens
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Met Asp Asn Val Gln Pro Lys Ile Lys His Arg Pro Phe Cys Phe Ser
              -45
                                  -40
                                                       -35
ALVal Lys Gly His Val Lys Met Leu Arg Leu Asp Ile Ile Asn Ser Leu
         -30
                              -25
                                               -20
tai Val Thr Thr Val Phe Met Leu Ile Val Ser Val Leu Ala Leu Ile Pro
  -15
Glu Thr Thr Thr Leu Thr Val Gly Gly Val Phe Ala Leu Val Thr
                                      10
Ala Val Cys Cys Leu Ala Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu
              20
                                  25
  Phe Asn Pro Ser Gly Pro Tyr Gln Lys Lys Pro Val His Glu Lys Lys
                              40
 Glu Val Leu
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 Met Ser Asn Thr His Thr Val Leu Val Ser Leu Pro His Pro His Pro
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                          -25
                                              -20
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Ala Leu Thr Cys Cys His Leu Gly Leu Pro His Pro Val Arg Ala Pro -15-10 -5 Arg Pro Leu Pro Arg Val Glu Pro Trp Asp Pro Arg Trp Gln Asp Ser Glu Leu Arg Tyr Pro Gln Ala Met Asn Ser Phe Leu Asn Glu Arg Ser Ser Pro Cys Arg Thr Leu Arg Gln Glu Ala Ser Ala Asp Arg Cys Asp Leu 50 <210> 196 <211> 150 <212> PRT <213> Homo sapiens <220> <400> 196 Met Lys Val His Met His Thr Lys Phe Cys Leu Ile Cys Leu Leu Thr Phe Ile Phe His His Cys Asn His Cys His Glu Glu His Asp His Gly 20 25 r≜Pro Glu Ala Leu His Arg Gln His Arg Gly Met Thr Glu Leu Glu Pro Liser Lys Phe Ser Lys Gln Ala Ala Glu Asn Glu Lys Lys Tyr Tyr Ile 55 Glu Lys Leu Phe Glu Arg Tyr Gly Glu Asn Gly Arg Leu Ser Phe Phe 75 Gly Leu Glu Lys Leu Leu Thr Asn Leu Gly Leu Gly Glu Arg Lys Val 85 90 Val Glu Ile Asn His Glu Asp Leu Gly His Asp His Val Ser His Leu 105 Figly Ile Leu Ala Val Gln Glu Gly Lys His Phe His Ser His Asn His 120 fiGln His Ser His Asn His Leu Asn Ser Glu Asn Gln Thr Val Thr Ser 135 Val Ser Thr Lys Lys 145 150 <210> 197 <211> 273 <212> PRT <213> Homo sapiens <220> <221> SIGNAL <222> -45..-1 <400> 197 Met Asn Trp Ser Ile Phe Glu Gly Leu Leu Ser Gly Val Asn Lys Tyr -40 -35 Ser Thr Ala Phe Gly Arg Ile Trp Leu Ser Leu Val Phe Ile Phe Arg -25 -20 Val Leu Val Tyr Leu Val Thr Ala Glu Arg Val Trp Ser Asp Asp His -10

15 Phe Asp Glu Phe Phe Pro Val Ser His Val Arg Leu Trp Ala Leu Gln Leu Ile Leu Val Thr Cys Pro Ser Leu Leu Val Val Met His Val Ala Tyr Arg Glu Val Gln Glu Lys Arg His Arg Glu Ala His Gly Glu Asn Ser Gly Arg Leu Tyr Leu Asn Pro Gly Lys Lys Arg Gly Gly Leu Trp 75 Trp Thr Tyr Val Cys Ser Leu Val Phe Lys Ala Ser Val Asp Ile Ala 90 Phe Leu Tyr Val Phe His Ser Phe Tyr Pro Lys Tyr Ile Leu Pro Pro 105 110 Val Val Lys Cys His Ala Asp Pro Cys Pro Asn Ile Val Asp Cys Phe 120 125 Ile Ser Lys Pro Ser Glu Lys Asn Ile Phe Thr Leu Phe Met Val Ala 140 Thr Ala Ala Ile Cys Ile Leu Leu Asn Leu Val Glu Leu Ile Tyr Leu 155 Val Ser Lys Arg Cys His Glu Cys Leu Ala Ala Arg Lys Ala Gln Ala 170 175 Met Cys Thr Gly His His Pro His Asp Thr Thr Ser Ser Cys Lys Gln 185 190 Asp Asp Leu Leu Ser Gly Asp Leu Ile Phe Leu Gly Ser Asp Ser His 200 205 Pro Pro Leu Leu Pro Asp Arg Pro Arg Asp His Val Lys Lys Thr Ile 220 # <210> 198 i⁼ <211> 413 -4<212> PRT =4 <213> Homo sapiens <222> -37..-1 <400> 198 Met Ala Ser Lys Ile Leu Leu Asn Val Gln Glu Val Thr Cys Pro -30 Ile Cys Leu Glu Leu Leu Thr Glu Pro Leu Ser Leu Asp Cys Gly His -15 Ser Leu Cys Arg Ala Cys Ile Thr Val Ser Asn Lys Glu Ala Val Thr Ser Met Gly Gly Lys Ser Ser Cys Pro Val Cys Gly Ile Ser Tyr Ser 20 Phe Glu His Leu Gln Ala Asn Gln His Leu Ala Asn Ile Val Glu Arg Leu Lys Glu Val Lys Leu Ser Pro Asp Asn Gly Lys Lys Arg Asp Leu 50 Cys Asp His His Gly Glu Lys Leu Leu Phe Cys Lys Glu Asp Arg 70 Lys Val Ile Cys Trp Leu Cys Glu Arg Ser Gln Glu His Arg Gly His 8.5 His Thr Val Leu Thr Glu Glu Val Phe Lys Glu Cys Gln Glu Lys Leu

Lys Asp Phe Asp Cys Asn Thr Arg Gln Pro Gly Cys Ser Asn Val Cys

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95
                                   100
                                                       105
   Gln Ala Val Leu Lys Arg Leu Lys Lys Glu Glu Glu Ala Glu Lys
                               115
   Leu Glu Ala Asp Ile Arg Glu Glu Lys Thr Ser Trp Lys Tyr Gln Val
                           130
  Gln Thr Glu Arg Gln Arg Ile Gln Thr Glu Phe Asp Gln Leu Arg Ser
                       145
                                           150
   Ile Leu Asn Asn Glu Glu Gln Arg Glu Leu Gln Arg Leu Glu Glu Glu
                  160
                                       165
  Glu Lys Lys Thr Leu Asp Lys Phe Ala Glu Ala Glu Asp Glu Leu Val
              175
                                  180
  Gln Gln Lys Gln Leu Val Arg Glu Leu Ile Ser Asp Val Glu Cys Arg
                               195
                                                   200
  Ser Gln Trp Ser Thr Met Glu Leu Leu Gln Asp Met Ser Gly Ile Met
                           210
  Lys Trp Ser Glu Ile Trp Arg Leu Lys Lys Pro Lys Met Val Ser Lys
                       225
                                           230
  Lys Leu Lys Thr Val Phe His Ala Pro Asp Leu Ser Arg Met Leu Gln
                   240
                                       245
  Met Phe Arg Glu Leu Thr Ala Val Arg Cys Tyr Trp Val Asp Val Thr
                                   260
  Leu Asn Ser Val Asn Leu Asn Leu Asn Leu Val Leu Ser Glu Asp Gln
          270
                               275
🟭 Arg Gln Val Ile Ser Val Pro Ile Trp Pro Phe Gln Cys Tyr Asn Tyr
                          290
                                               295
🟥 Gly Val Leu Gly Ser Gln Tyr Phe Ser Ser Gly Lys His Tyr Trp Glu
                       305
                                           310
Val Asp Val Ser Lys Lys Thr Ala Trp Ile Leu Gly Val Tyr Cys Arg
                  320
                                       325
  Thr Tyr Ser Arg His Met Lys Tyr Val Val Arg Arg Cys Ala Asn Arg
                                   340
Gln Asn Leu Tyr Thr Lys Tyr Arg Pro Leu Phe Gly Tyr Trp Val Ile
                              355
🏝 Gly Leu Gln Asn Lys Cys Lys Tyr Gly Ala Lys Lys Lys
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  Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
  Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
                          20
  Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
                                          40
  Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
                                      55
  Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
```

70 Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln 85 Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp 100 Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu 115 120 His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe 130 135 Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr 150 Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu 165 170 Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met 180 185 Leu Thr His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu 195 200 Leu Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met 210 215 Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly Phe 225 230 Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro Asn 245 Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro Lys 260 265 Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly Met 275 280 Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala Arg 290 295 Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp Ser 305 310 H Gln Ala Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly Arg 320 325 His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu Glu 340 Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly Gln 355 360 Gly Leu Asp Tyr Phe Tyr Asp Leu Leu

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<213> Homo sapiens
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<220> <221> SIGNAL <222> -13..-1

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 Leu
 Leu
 Ser
 Ile
 Gly
 Met
 Leu
 Met
 Leu
 Ser
 Ala
 Thr
 Gln
 Val
 Tyr

 Thr
 Val
 Leu
 Thr
 Val
 Gln
 Leu
 Phe
 Ala
 Phe
 Leu
 Asn
 Pro
 Leu
 Pro
 Val

 5
 10
 15
 15
 15
 15
 16
 Glu
 Asn
 Phe
 Glu
 Asn
 Ala
 Ser
 Gln
 Thr
 Phe

 20
 25
 30
 35
 35

 Asp
 Asp
 Leu
 Pro
 Ala
 Arg
 Phe
 Gly
 Tyr
 Arg
 Leu
 Pro
 Ala
 Gly
 Leu

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40
  Lys Gly Phe Leu Ile Asn Ser Lys Pro Glu Asn Ala Cys Glu Pro Ile
                                  60
  Val Pro Pro Pro Val Lys Asp Asn Ser Ser Gly Thr Phe Ile Val Leu
  Ile Arg Arg Leu Asp Cys Asn Phe Asp Ile Lys Val Leu Asn Ala Gln
                          90
  Arg Ala Gly Tyr Lys Ala Ala Ile Val His Asn Val Asp Ser Asp Asp
                      105
                                          110
  Leu Ile Ser Met Gly Ser Asn Asp Ile Glu Val Leu Lys Lys Ile Asp
                  120
                                      125
  Ile Pro Ser Val Phe Ile Gly Glu Ser Ser Ala Ser Ser Leu Lys Asp
                                  140
  Glu Phe Thr Tyr Glu Lys Gly Gly His Leu Ile Leu Val Pro Glu Phe
          150
                              155
  Ser Leu Pro Leu Glu Tyr Tyr Leu Ile Pro Phe Leu Ile Ile Val Gly
                          170
                                              175
  Ile Cys Leu Ile Leu Ile Val Ile Phe Met Ile Thr Lys Phe Val Gln
                      185
                                          190
  Asp Arg His Arg Ala Arg Arg Asn Arg Leu Arg Lys Asp Gln Leu Lys
                  200
                                      205
  Lys Leu Pro Val His Lys Phe Lys Lys Gly Asp Glu Tyr Asp Val Cys
                                  220
🟭 Ala Ile Cys Leu Asp Glu Tyr Glu Asp Gly Asp Lys Leu Arg Ile Leu
         230
                              235
Pro Cys Ser His Ala Tyr His Cys Lys Cys Val Asp Pro Trp Leu Thr
                          250
                                              255
  Lys Thr Lys Lys Thr Cys Pro Val Cys Arg Gln Lys Val Val Pro Ser
                      265
                                         270
Gln Gly Asp Ser Asp Ser Asp Thr Asp Ser Ser Gln Glu Glu Asn Glu
                  280
                          •
                                    285
Val Thr Glu His Thr Pro Leu Leu Arg Pro Leu Ala Ser Val Ser Ala
              295
                                  300
ad Gln Ser Phe Gly Ala Leu Ser Glu Ser Arg Ser His Gln Asn Met Thr
                              315
Glu Ser Ser Asp Tyr Glu Glu Asp Asp Asn Glu Asp Thr Asp Ser Ser
                          330
Asp Ala Glu Asn Glu Ile Asn Glu His Asp Val Val Val Gln Leu Gln
                     345
                                         350
  Pro Asn Gly Glu Arg Asp Tyr Asn Ile Ala Asn Thr Val
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-40

-35

Val Gly Val Asn Asn Lys Arg Leu Gly Val Cys Gly Trp Ile Leu Phe

-25

Ser Leu Ser Phe Leu Leu Val Ile Ile Thr Phe Pro Ile Ser Ile Trp

```
-10
  Met Cys Leu Lys Ile Ile Arg Glu Tyr Glu Arg Ala Val Val Phe Arg
                                  15
  Leu Gly Arg Ile Gln Ala Asp Lys Ala Lys Gly Pro Gly Leu Ile Leu
                              30
  Val Leu Pro Cys Ile Asp Val Phe Val Lys Val Asp Leu Arg Thr Val
                          45
  Thr Cys Asn Ile Pro Pro Gln Glu Ile Leu Thr Arg Asp Ser Val Thr
                                          65
  Thr Gln Val Asp Gly Val Val Tyr Tyr Arg Ile Tyr Ser Ala Val Ser
                  75
                                      80
  Ala Val Ala Asn Val Asn Asp Val His Gln Ala Thr Phe Leu Leu Ala
                                  95
  Gln Thr Thr Leu Arg Asn Val Leu Gly Thr Gln Thr Leu Ser Gln Ile
                              110
  Leu Ala Gly Arg Glu Glu Ile Ala His Ser Ile Gln Thr Leu Leu Asp
                          125
                                              130
  Asp Ala Thr Glu Leu Trp Gly Ile Arg Val Ala Arg Val Glu Ile Lys
                      140
  Asp Val Arg Ile Pro Val Gln Leu Gln Arg Ser Met Ala Ala Glu Ala
                  155
                                      160
  Glu Ala Thr Arg Glu Ala Arg Ala Lys Val Leu Ala Ala Glu Gly Glu
              170
                                  175
🏣 Met Ser Ala Ser Lys Ser Leu Lys Ser Ala Ser Met Val Leu Ala Glu
         185
                              190
                                                  195
語 Ser Pro Ile Ala Leu Gln Leu Arg Tyr Leu Gln Thr Leu Ser Thr Val
                          205
Ala Thr Glu Lys Asn Ser Thr Ile Val Phe Pro Leu Pro Met Asn Ile
                      220
                                          225
 Leu Glu Gly Ile Gly Gly Val Ser Tyr Asp Asn His Lys Lys Leu Pro
                  235
H Asn Lys Ala
a=
a-
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211> 92 م
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  Thr Tyr Leu Pro Gln Ser Tyr Leu Ile His Glu His Met Val Ile Thr
  Asp Arg Ile Glu Asn Ile Asp His Leu Gly Phe Phe Ile Tyr Arg Leu
  Cys His Asp Lys Glu Thr Tyr Lys Leu Gln Arg Arg Glu Thr Ile Lys
  Gly Ile Gln Lys Arg Glu Ala Ser Asn Cys Phe Ala Ile Arg His Phe
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  Glu Asn Lys Phe Ala Val Glu Thr Leu Ile Cys Ser
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  Pro Asp Lys Val Glu Leu Met Leu Pro Glu Lys Leu Arg Pro Leu Tyr
                               -40
                                                    -35
  Asn His Pro Ala Gly Pro Arg Thr Val Phe Phe Trp Ala Pro Ile Met
                           -25
                                                -20
  Lys Trp Gly Leu Val Cys Ala Gly Leu Ala Asp Met Ala Arg Pro Ala
                       -10
                                           -5
  Glu Lys Leu Ser Thr Ala Gln Ser Ala Val Leu Met Ala Thr Gly Phe
                                   10
  Ile Trp Ser Arg Tyr Ser Leu Val Ile Ile Pro Lys Asn Trp Ser Leu
                               25
  Phe Ala Val Asn Phe Phe Val Gly Ala Ala Gly Ala Ser Gln Leu Phe
                           40
                                               45
Arg Ile Trp Arg Tyr Asn Gln Glu Leu Lys Ala Lys Ala His Lys
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<210> 204
(211> 84
<212> PRT
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                                           -10
  Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg
  Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys
                               20
  Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln
                           35
  Ser Val Val Glu Val Thr Val Thr Val Pro Pro Asn Lys Val Ala His
  45
                       50
  Ser Gly Phe Gly
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  Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Gly Ala Leu Leu Gly
                       -15
                                           -10
  Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg
  Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys
                               20
  Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln
                                               40
  Ser Val Val Glu Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu
                       50
                                           55
  Leu Leu Glu Glu Ile Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile
                   65
                                       70
  Asp Pro Ser Thr His Arg Lys Asn Tyr Val Arg Val Val Gly Arg Asn
                                   85
  Gly Glu Ser Ser Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp
                               100
                                                    105
  Ile Ser Gly Thr Leu Lys Phe Ala Cys Gly Ser Ile Val Glu Glu Tyr
                           115
  Glu Asp Glu Leu Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys
                      130
                                           135
  Asp Lys Leu Cys Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His
                  145
                                       150
Ile Ser His Asp Glu Leu
e#
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<212> PRT
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== <221> SIGNAL
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  Met Pro Ala Gly Val Pro Met Ser Thr Tyr Leu Lys Met Phe Ala Ala
                       -20
                                           -15
  Ser Leu Leu Ala Met Cys Ala Gly Ala Glu Val Val His Arg Tyr Tyr
                  -5
  Arg Pro Asp Leu Thr Ile Pro Glu Ile Pro Pro Lys Arg Gly Glu Leu
                               15
  Lys Thr Glu Leu Leu Gly Leu Lys Glu Arg Lys His Lys Pro Gln Val
  Ser Gln Gln Glu Glu Leu Lys
  40
  <210> 207
  <211> 73
  <212> PRT
  <213> Homo sapiens
  <220>
  <400> 207
  Met Arg Ile Arg Met Thr Asp Gly Arg Thr Leu Val Gly Cys Phe Leu
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<400> 205
  Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Gly Ala Leu Leu Gly
                      -15
                                           -10
  Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg
  Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys
  Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln
                           35
  Ser Val Val Glu Val Pro Tyr Ala Arg Ser Glu Ala His Leu Thr Glu
  Leu Leu Glu Glu Ile Cys Asp Arg Met Lys Glu Tyr Gly Glu Gln Ile
  Asp Pro Ser Thr His Arg Lys Asn Tyr Val Arg Val Val Gly Arg Asn
                                   85
  Gly Glu Ser Ser Glu Leu Asp Leu Gln Gly Ile Arg Ile Asp Ser Asp
                               100
  Ile Ser Gly Thr Leu Lys Phe Ala Cys Gly Ser Ile Val Glu Glu Tyr
                          115
  Glu Asp Glu Leu Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn Val Lys
                      130
                                           135
  Asp Lys Leu Cys Ser Lys Arg Thr Asp Leu Cys Asp His Ala Leu His
Ile Ser His Asp Glu Leu
              160
z=
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₩ <212> PRT
<!-- < 213 > Homo sapiens
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Met Pro Ala Gly Val Pro Met Ser Thr Tyr Leu Lys Met Phe Ala Ala
                      -20
                                           -15
  Ser Leu Leu Ala Met Cys Ala Gly Ala Glu Val Val His Arg Tyr Tyr
                  -5
  Arg Pro Asp Leu Thr Ile Pro Glu Ile Pro Pro Lys Arg Gly Glu Leu
                              15
  Lys Thr Glu Leu Leu Gly Leu Lys Glu Arg Lys His Lys Pro Gln Val
  Ser Gln Gln Glu Glu Leu Lys
                      45
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  <211> 73
  <212> PRT
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  <400> 207
  Met Arg Ile Arg Met Thr Asp Gly Arg Thr Leu Val Gly Cys Phe Leu
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10
  Cys Thr Asp Arg Asp Cys Asn Val Ile Leu Gly Ser Ala Gln Glu Phe
                                 25
  Leu Lys Pro Ser Asp Ser Phe Ser Ala Gly Glu Pro Arg Val Leu Gly
                             40
  Leu Ala Met Val Pro Gly His His Ile Val Ser Ile Glu Val Gln Arq
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  Glu Ser Leu Thr Gly Pro Pro Tyr Leu
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  <221> SIGNAL
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  <400> 208
  Met Ala Glu Thr Lys Asp Thr Ala Gln Met Leu Val Thr Phe Lys Asp
         -145
                                 -140
Val Ala Val Thr Phe Thr Arg Glu Glu Trp Arg Gln Leu Asp Leu Ala
                 -130
                                     -125
Gln Arg Thr Leu Tyr Arg Glu Gly Ile Gly Phe Pro Lys Pro Glu Leu
             -115
                                -110
Val His Leu Leu Glu His Gly Gln Glu Leu Trp Ile Val Lys Arg Gly
                 -95
  -100
Leu Ser His Ala Thr Cys Ala Glu Phe His Ser Cys Cys Pro Gly Trp
                 -80
                                            -75
🕫 Ser Ala Val Xaa Arg His Leu Ser Ser Leu Gln Leu Leu Pro Pro Glu
                     -65
                                        -60
A Phe Lys Gly Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg
                 -50
                                    -45
Arg Pro Pro Pro Cys Pro Ala Gly Phe Phe Val Phe Leu Val Glu Thr
                               -30
Gly Leu His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Cys
                            -15
  Ser Pro Pro Ala Ser Ala Ser Gln Ser Ala Ala Ile Thr Gly Val Ser
  His Arg Ala Arg Gln Arg Lys Thr Ala
                 15
  <210> 209
  <211> 76
  <212> PRT
  <213> Homo sapiens
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  <221> SIGNAL
  <222> -22..-1
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  Met Glu Leu Ile Ser Pro Thr Val Ile Ile Ile Leu Gly Cys Leu Ala
                             -15
  Leu Phe Leu Leu Gln Arg Lys Asn Leu Arg Arg Pro Pro Cys Ile
```

```
Lys Gly Trp Ile Pro Trp Ile Gly Val Gly Phe Glu Phe Gly Lys Ala
                                      20
  Pro Leu Glu Phe Ile Glu Lys Ala Arg Ile Lys Val Cys Gly Arg Gly
  Arg Arg Gly Leu Gln Arg Arg Gln Cys Phe Leu Phe
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  <221> SIGNAL
  <222> -54..-1
  <400> 210
  Met Ala Glu Thr Lys Asp Ala Ala Gln Met Leu Val Thr Phe Lys Asp
                  -50
                                     -45
  Val Ala Val Thr Phe Thr Arg Glu Glu Trp Arg Gln Leu Asp Leu Ala
                                  -30
f Gln Arg Thr Leu Tyr Arg Glu Val Met Leu Glu Thr Cys Gly Leu Leu
         -20
                              -15
                                                 -10
Val Ser Leu Val Glu Ser Ile Trp Leu His Ile Thr Glu Asn Gln Ile
                          1
Lys Leu Ala Ser Pro Gly Arg Lys Phe Thr Asn Ser Pro Asp Glu Lys
                 15
                                     20
Pro Glu Val Trp Leu Ala Pro Gly Leu Phe Gly Ala Ala Gln
                                  35
LE <210> 211
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<220>
  <221> SIGNAL
  <222> -22..-1
  <400> 211
  Met Glu Leu Ile Ser Pro Thr Val Ile Ile Ile Leu Gly Cys Leu Ala
                                                 -10
  Leu Phe Leu Leu Gln Arg Lys Asn Leu Arg Arg Pro Pro Cys Ile
  Lys Gly Trp Ile Pro Trp Ile Gly Val Gly Phe Glu Phe Gly Lys Ala
  Pro Leu Glu Phe Ile Glu Lys Ala Arg Ile Lys Tyr Gly Pro Ile Phe
                                 35
  Thr Val Phe Ala Met Gly Asn Arg Met Thr Phe Val Thr Glu Glu Glu
  Gly Ile Asn Val Phe Leu Lys Ser Lys Lys Lys
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  <213> Homo sapiens
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  <221> SIGNAL
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  <400> 212
  Met Ile Ile Ser Leu Phe Ile Tyr Ile Phe Leu Thr Cys Ser Asn Thr
  Ser Pro Ser Tyr Gln Gly Thr Gln Leu Gly Leu Gly Leu Pro Ser Ala
  Gln Trp Trp Pro Leu Thr Gly Arg Arg Met Gln Cys Cys Arg Leu Phe
  Cys Phe Leu Leu Gln Asn Cys Leu Phe Pro Phe Pro Leu His Leu Ile
                              40
  Gln His Asp Pro Cys Glu Leu Val Leu Thr Ile Ser Trp Asp Trp Ala
  Glu Ala Gly Ala Ser Leu Tyr Ser Pro
<210> 213
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₩ <212> PRT
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  <400> 213
Met Lys Val Asp Lys Asp Arg Gln Met Val Val Leu Glu Glu Glu Phe
                                      10
  Arg Asn Ile Ser Pro Glu Glu Leu Lys Met Glu Leu Pro Glu Arg Gln
              20
                                  25
Pro Arg Phe Val Val Tyr Ser Tyr Lys Tyr Val Arg Asp Asp Gly Arg
         35
                              40
Mal Ser Tyr Pro Leu Cys Phe Ile Phe Ser Ser Pro Val Gly Cys Lys
  Pro Glu Gln Gln Met Met Tyr Ala Gly Ser Lys Asn Arg Leu Val Gln
                                          75
  Thr Ala Glu Leu Thr Lys Val Phe Glu Ile Arg Thr Thr Asp Asp Leu
  Thr Glu Ala Trp Leu Gln Glu Lys Leu Ser Phe Phe Arg
              100
  <210> 214
  <211> 114
  <212> PRT
  <213> Homo sapiens
  <220>
  <221> SIGNAL
  <222> -103..-1
  <400> 214
  Met Val Ile Arg Val Tyr Ile Ala Ser Ser Ser Gly Ser Thr Ala Ile
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-100 -95 -90 Lys Lys Gln Gln Asp Val Leu Gly Phe Leu Glu Ala Asn Lys Ile -85 -80 -75 Gly Phe Glu Glu Lys Asp Ile Ala Ala Asn Glu Glu Asn Arg Lys Trp -65 -60 Met Arg Glu Asn Val Pro Glu Asn Ser Arg Pro Ala Thr Gly Asn Pro -50 -45 Leu Pro Pro Gln Ile Phe Asn Glu Ser Gln Tyr Arg Gly Asp Tyr Asp -35 -30 Ala Phe Phe Glu Ala Arg Glu Asn Asn Ala Val Tyr Ala Phe Leu Gly -15 Leu Thr Ala Pro Ser Gly Ser Lys Glu Ala Glu Val Gln Ala Lys Gln Gln Ala 10 <210> 215 <211> 124 <212> PRT <213> Homo sapiens <220> *** <221> SIGNAL
*** <222> -97..-1 j.= ¹ <400> 215 👫 Met Ala Asp Asp Leu Lys Arg Phe Leu Tyr Lys Lys Leu Pro Ser Val ·2 -95 -90 🖺 Glu Gly Leu His Ala Ile Val Val Ser Asp Arg Asp Gly Val Pro Val -80 -75 -70 Ile Lys Val Ala Asn Asp Asn Ala Pro Glu His Ala Leu Arg Pro Gly _{is≜} −65 -60 <del>-</del>55 Phe Leu Ser Thr Phe Ala Leu Ala Thr Asp Gln Gly Ser Lys Leu Gly -45 -40 Leu Ser Lys Asn Lys Ser Ile Ile Cys Tyr Tyr Asn Thr Tyr Gln Val -30 -25 -20 🕌 Val Gln Phe Asn Arg Leu Pro Leu Val Val Ser Phe Ile Ala Ser Ser -15 -10 Ser Ala Asn Thr Gly Leu Ile Val Ser Leu Glu Lys Glu Leu Ala Pro 5 Leu Phe Glu Glu Leu Arg Gln Val Val Glu Val Ser 20 <210> 216 <211> 93 <212> PRT <213> Homo sapiens <220> <221> SIGNAL <222> -22..-1 <400> 216 Met Lys Pro Val Leu Pro Leu Gln Phe Leu Val Val Phe Cys Leu Ala -15

Leu Gln Leu Val Pro Gly Ser Pro Lys Gln Arg Val Leu Lys Tyr Ile

<400> 217

Met His Ile Leu Gln Leu Leu Thr Thr Val Asp Asp Gly Ile Gln Ala -35 if Ile Val His Cys Pro Asp Thr Gly Lys Asp Ile Trp Asn Leu Leu Phe -20 -15 Asp Leu Val Cys His Glu Phe Cys Gln Ser Asp Asp Pro Pro Ile Ile -5 1 Leu Gln Glu Gln Lys Thr Val Leu Ala Ser Val Phe Ser Val Leu Ser 10 15 Ala Ile Tyr Ala Ser Gln Thr Glu Gln Glu Tyr Leu Lys Ile Glu Lys 25 30 # Val Asp Leu Pro Leu Ile Asp Ser Leu Ile Arg Val Leu Gln Asn Met 45 🏥 Glu Gln Cys Gln Lys Lys Pro Glu Asn Ser Ala Glu Ser Asn Thr Glu 60 65 Glu Thr Lys Arg Thr Asp Leu Thr Gln Asp Asp Phe His Leu Lys Ile 80 Leu Lys Asp Ile Leu Cys Glu Phe Leu Ser Asn Ile Phe Gln Ala Leu 95 Thr Lys Glu Thr Val Ala Gln Gly Val Lys Glu Gly Gln Leu Ser Lys 105 110 115 Gln Lys Cys Ser Ser Ala Phe Gln Asn Leu Leu Pro Phe Tyr Ser Pro 125 Val Val Glu Asp Phe Ile Lys Ile Leu Arg Glu Val Asp Lys Ala Leu 140 145 Ala Asp Asp Leu Glu Lys Asn Phe Pro Ser Leu Lys Val Gln Thr 160

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<220>

<400> 218 Met Pro His Ser Lys Pro Leu Asp Trp Gly Leu Ser Ser Val Ala Glu



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  Cys Pro Ala Glu Leu Phe Pro Ser Thr Gly Gly Leu Ala Gly Lys Gly
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  Pro Gly Leu Asp Ile Leu Arg Cys Val Leu Ser Pro Trp Ala Ser His
                              40
  Phe Pro Ser Leu Ser Leu Gly Val Phe Asn Leu
  <210> 219
  <211> 56
  <212> PRT
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  <221> SIGNAL
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  <400> 219
  Met Asn Arg Val Pro Ala Asp Ser Pro Asn Met Cys Leu Ile Cys Leu
                              -20
  Leu Ser Tyr Ile Ala Leu Gly Ala Ile His Ala Lys Ile Cys Arg Arg
  -10
                          -5
🔝 Ala Phe Gln Glu Glu Gly Arg Ala Asn Ala Lys Thr Gly Val Arg Ala
                  10
                                      15
Trp Cys Ile Gln Pro Trp Ala Lys
              25
1
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  Met Leu Gln Thr Ser Asn Tyr Ser Leu Val Leu Ser Leu Gln Phe Leu
                  -90
                                      -85
  Leu Leu Ser Tyr Asp Leu Phe Val Asn Ser Phe Ser Glu Leu Leu Gln
              -75
                                  -70
  Lys Thr Pro Val Ile Gln Leu Val Leu Phe Ile Ile Gln Asp Ile Ala
                              -55
  Val Leu Phe Asn Ile Ile Ile Phe Leu Met Phe Phe Asn Thr Phe
                          -40
                                              -35
  Val Phe Gln Ala Gly Leu Val Asn Leu Leu Phe His Lys Phe Lys Gly
                      -25
                                          -20
  Thr Ile Ile Leu Thr Ala Val Tyr Phe Ala Leu Ser Ile Ser Leu His
                                      -5
  Val Trp Val Met Asn Leu Arg Trp Lys Asn Ser Asn Ser Phe Ile Trp
                              10
  Thr Asp Gly Leu Gln Met Leu Phe Val Phe Gln Arg Leu Ala Ala Val
                          25
  Leu Tyr Cys Tyr Phe Tyr Lys Arg Thr Ala Val Arg Leu Gly Asp Pro
                      40
                                          45
  His Phe Tyr Gln Asp Ser Leu Trp Leu Arg Lys Glu Phe Met Gln Val
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55 60 65

Arg Arg

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<211> 154

<212> PRT <213> Homo sapiens

<220>

<221> SIGNAL

<222> -68..-1

<400> 221

Met Ala Ser Ala Ser Ala Arg Gly Asn Gln Asp Lys Asp Ala His Phe
-65 -60 -55

Pro Pro Pro Ser Lys Gln Ser Leu Leu Phe Cys Pro Lys Ser Lys Leu
-50 -45 -40

His Ile His Arg Ala Glu Ile Ser Lys Ile Met Arg Glu Cys Gln Glu
-35 -30 -25

Glu Ser Phe Trp Lys Arg Ala Leu Pro Phe Ser Leu Val Ser Met Leu -20 -15 -10 -5

Val Thr Gln Gly Leu Val Tyr Gln Gly Tyr Leu Ala Ala Asn Ser Arg

Phe Gly Ser Leu Pro Lys Val Ala Leu Ala Gly Leu Leu Gly Phe Gly
15 20 25

Leu Gly Lys Val Ser Tyr Ile Gly Val Cys Gln Ser Lys Phe His Phe

Phe Glu Asp Gln Leu Arg Gly Ala Gly Phe Gly Pro Gln His Asn Arg

His Cys Leu Leu Thr Cys Glu Glu Cys Lys Ile Lys His Gly Leu Ser

a≟Glu Lys Gly Asp Ser Gln Pro Ser Ala Ser

-h

<210> 222

<211> 99

212> PRT

<213> Homo sapiens

<220>

<400> 222

Met Lys Val Glu Glu Glu His Thr Asn Ala Ile Gly Thr Leu His Gly
1 10 15

Gly Leu Thr Ala Thr Leu Val Asp Asn Ile Ser Thr Met Ala Leu Leu 20 25 30

Cys Thr Glu Arg Gly Ala Pro Gly Val Ser Val Asp Met Asn Ile Thr 35 40 45

Tyr Met Ser Pro Ala Lys Leu Gly Glu Asp Ile Val Ile Thr Ala His
50 55 60

Val Leu Lys Gln Gly Lys Thr Leu Ala Phe Thr Ser Val Gly Leu Thr 65 70 75 80

Asn Lys Ala Thr Gly Lys Leu Ile Ala Gln Gly Arg His Thr Lys His 85 90 95

Leu Gly Asn

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  <213> Homo sapiens
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  Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu
                                      -15
  Leu Ile Phe Leu Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser
  Pro Tyr Phe Lys Met His Lys Pro Val Thr Met
      10
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  <211> 69
  <212> PRT
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Met Trp Trp Phe Gln Gln Gly Leu Ser Phe Leu Pro Ser Ala Leu Val
    -20
                          -15
                                              -10
Ile Trp Thr Ser Ala Ala Phe Ile Phe Ser Tyr Ile Thr Ala Val Thr
                                      5
                      1
Leu His His Ile Asp Pro Ala Leu Pro Tyr Ile Ser Asp Thr Gly Thr
                                  20
Val Ala Pro Glu Lys Cys Leu Phe Gly Ala Met Leu Asn Ile Ala Ala
         30
                              35
Val Leu Cys Gln Lys
13 45
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  <222> -18..-1
  <400> 225
  Met Ser Pro Gly Ser Ala Leu Ala Leu Leu Trp Ser Leu Pro Ala Ser
                                  -10
             -15
  Asp Leu Gly Arg Ser Val Ile Ala Gly Leu Trp Pro His Thr Gly Val
                                              10
  Leu Ile His Leu Glu Thr Ser Gln Ser Phe Leu Gln Gly Gln Leu Thr
                      20
                                          25
  Lys Ser Ile Phe Pro Leu Cys Cys Thr Ser Leu Phe Cys Val Cys Val
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<210> 226



Val Thr Val Gly Gly Gly Arg Val Gly Ser Thr Phe Val Ala
50 55 60

<211> 80 <212> PRT <213> Homo sapiens <220> <221> SIGNAL <222> -47..-1 <400> 226 Met Arg Leu Pro Pro Ala Leu Pro Ser Gly Tyr Thr Asp Ser Thr Ala -35 Leu Glu Gly Leu Val Tyr Tyr Leu Asn Gln Lys Leu Leu Phe Ser Ser -25 Pro Ala Ser Ala Leu Leu Phe Phe Ala Arg Pro Cys Val Phe Cys Phe -5 Lys Ala Ser Lys Met Gly Pro Gln Phe Glu Asn Tyr Pro Thr Phe Pro Thr Tyr Ser Pro Leu Pro Ile Ile Pro Phe Gln Leu His Gly Arg Phe -4 <210> 227 🏥 <211> 241 :5 <212> PRT وز <213> Homo sapiens <220> <221> SIGNAL <== <222> -103..-1 **400> 227** #Met Trp Leu Asp Pro Val Phe Pro Leu Phe Pro Val Gly Asp His Tyr -95 Leu Pro His Leu His Met Asp Val Leu Glu Gly Leu Ile Leu Val Leu -85 -80 -75 Pro Cys Ile Asp Val Phe Val Lys Val Asp Leu Arg Thr Val Thr Cys -65 -60 Asn Ile Pro Pro Gln Glu Ile Leu Thr Arg Asp Ser Val Thr Thr Gln -50 -45 Val Asp Gly Val Val Tyr Tyr Arg Ile Tyr Ser Ala Val Ser Ala Val -35 -30 Ala Asn Val Asn Asp Val His Gln Ala Thr Phe Leu Leu Ala Gln Thr -15 Thr Leu Arg Asn Val Leu Gly Thr Gln Thr Leu Ser Gln Ile Leu Ala Gly Arg Glu Glu Ile Ala His Ser Ile Gln Thr Leu Leu Asp Asp Ala Thr Glu Leu Trp Gly Ile Arg Val Ala Arg Val Glu Ile Lys Asp Val 35 Arg Ile Pro Val Gln Leu Gln Arg Ser Met Ala Ala Glu Ala Glu Ala Thr Arg Glu Ala Arg Ala Lys Val Leu Ala Ala Glu Gly Glu Met Asn





Ala Ser Lys Ser Leu Lys Ser Ala Ser Met Val Leu Ala Glu Ser Pro
75

Ile Ala Leu Gln Leu Arg Tyr Leu Gln Thr Leu Ser Thr Val Ala Thr
90

Glu Lys Asn Ser Thr Ile Val Phe Pro
115

Gly Ile Gly Gly Val Ser Tyr Asp Asn His Lys Lys Leu Pro Asn Lys
135

Ala

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